

Application No. 09/815,409

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings of claims in the application:

1. (Original) A method of operating a photosensitive apparatus having at least one photodiode, comprising the steps of:
  - injecting a first bias charge onto the photodiode;
  - sampling the first bias charge on the photodiode, yielding a sampled signal;
  - injecting a second bias charge onto the photodiode;
  - integrating a light signal on the photodiode;
  - transferring the light signal and the second bias charge from the photodiode; and
  - subtracting the sampled signal from the light signal and the second bias charge.
2. (Original) The method of **claim 1**, the sampling step including storing the sampled signal on a capacitor.
3. (Original) The method of **claim 2**, the subtracting step including reading out the light signal and the second bias charge through the capacitor having the sampled signal thereon.
4. (Original) The method of **claim 2**, the storing step including the step of placing a predetermined reference voltage on a second side of the capacitor when the sampled signal is transferred to a first side of the capacitor.

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5. (Original) A method of operating a photosensitive apparatus having at least one photodiode and a capacitor associated with the photodiode, comprising the steps of:

- injecting a first bias charge onto the photodiode;
- transferring the first bias charge from the photodiode to the capacitor;
- injecting a second bias charge onto the photodiode; and
- transferring the second bias charge in combination with a light signal from the photodiode to the capacitor.

6. (Original) The method of **claim 5**, further comprising the step of placing a predetermined reference voltage on a second side of the capacitor when the first bias charge is transferred to the capacitor on a first side of the capacitor.

7. (Original) The method of **claim 6**, wherein, when the second bias charge is transferred to the capacitor on a first side of the capacitor, a second side of the capacitor is caused to float.

8. (Original) The method of **claim 1**, further comprising the step of reading out a resulting charge on the capacitor as an image signal.

9. (Original) The method of **claim 1**, the apparatus further comprising an amplifier disposed between the photodiode and the capacitor.

10. (Original) The method of **claim 1**, the apparatus further comprising a holding capacitor disposed in parallel between the photodiode and the capacitor.

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11. (Currently Amended) A photosensitive imaging apparatus, comprising a plurality of cells, each cell corresponding to a small area of an image to be recorded, each cell including

at least one photodiode,

a sampling capacitor associated in series with the photodiode,

means for injecting a bias charge onto the photodiode, and

means for transferring a charge from the photodiode onto the sampling capacitor.

12. (Cancelled)

13. (Currently amended) The apparatus of **claim 11**, further comprising means for placing a predetermined reference voltage on a second side of the sampling capacitor in a cell when charge is transferred to the sampling capacitor on a first side of the sampling capacitor.

14. (Currently amended) The apparatus of **claim 11**, each cell further including an amplifier disposed between the photodiode and the sampling capacitor.

15. (Currently amended) The apparatus of **claim 11**, each cell including a second capacitor in parallel with the at least one photodiode.

16. (Original) The apparatus of **claim 15**, the second capacitor being disposed between the amplifier and the sampling capacitor.

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